

ABSTRACT OF THE DISCLOSURE

A first charge pump circuit and a second charge pump circuit are complementarily driven by a first driving circuit and a second driving circuit, and step up a DC input voltage by two times. Also, the first driving circuit stops its operation based on a light load judging signal, an input voltage judging signal or an output voltage judging signal, which is input in a control input terminal. For example, when the load is light, there is a margin for the load, and the light load judging signal becomes to be an "L" level. As a result, the first driving circuit stops outputting drive signals, such that the first charge pump circuit stops its operation.